

**National Functional Guidelines Report #03**

**Lab** CHEM(Chemtech Consulting Group)    **SDG** MF6AC0    **Case** 42764    **Contract** EPW09038    **Region** 6    **DDTID** 158613    **SOW** ISM01.3

**Data Review Reports**

Blanks

Blanks	Hg
ND15	<p>The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5</p> <p>Mercury MF6AC0 , MF6AC0D , MF6AC0S , MF6AC8 , MF6AC9 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD3 , MF6AD4 , MF6AD5 , MF6AD6 , MF6AD7 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF2 , MF6AF3 , MF6AF5</p>
Blanks	Hg
ND16	<p>The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5</p> <p>Mercury MF6AC0 , MF6AC0D , MF6AC0S , MF6AC8 , MF6AC9 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD3 , MF6AD4 , MF6AD5 , MF6AD6 , MF6AD7 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF2 , MF6AF3 , MF6AF5</p>



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<b>Blanks</b>	<b>ICP_AES</b>
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBW01, MF6AE5, PBS01
	Vanadium PBW01 , MF6AE5 , PBS01
	Sodium PBW01 , MF6AE5 , PBS01
	Chromium PBW01 , MF6AE5 , PBS01
	Barium PBW01 , MF6AE5 , PBS01
	Beryllium MF6AE5 , PBS01
	Zinc PBW01 , MF6AE5 , PBS01
	Copper PBW01 , MF6AE5 , PBS01
	Magnesium PBW01 , MF6AE5 , PBS01
	Manganese PBW01 , MF6AE5
	Iron PBW01 , MF6AE5
<b>Blanks</b>	<b>ICP_AES</b>
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS01
	Iron PBS01
<b>Blanks</b>	<b>ICP_AES</b>
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L, MF6AE5, PBW01, PBS01
	Selenium MF6AC0 , MF6AC0D , MF6AC8 , MF6AC9 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD3 , MF6AD4 , MF6AD5 , MF6AD6 , MF6AD7 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF2 , MF6AF3 , MF6AF5 , MF6AC0L
	Calcium MF6AE5
	Beryllium MF6AC0L
	Aluminum PBW01 , MF6AE5
	Potassium PBW01 , PBS01
	Iron PBS01
<b>Blanks</b>	<b>ICP_AES</b>

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Blanks

Blanks	ICP_AES
ND05	<p>The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L</p> <p>Arsenic LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L</p> <p>Iron LCS, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3</p>
ND06	<p>The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L</p> <p>Beryllium LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L</p> <p>Aluminum LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L</p> <p>Potassium LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L</p> <p>Copper LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L</p> <p>Iron LCS, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3</p>
ND15	<p>The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>MF6AC0A, MF6AC0, MF6AC0D, MF6AC0S, MF6AF5, MF6AC0L</p> <p>Antimony MF6AC0A</p> <p>Iron MF6AC0, MF6AC0D, MF6AC0S, MF6AF5, MF6AC0L</p>
ND16	<p>The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AD1, MF6AD2, MF6AD7, MF6AE2, MF6AC0L</p> <p>Barium LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AD1, MF6AD2, MF6AD7, MF6AE2, MF6AC0L</p>
NE05	<p>The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p>

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Blanks

Blanks	ICP_AES
	LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L, MF6AC0S
	Aluminum LCS
	Potassium LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L
	Iron LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L

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## Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF6AE5, MF6AC0, MF6AC0D, MF6AD1, MF6AD2, MF6AD7, MF6AE0, MF6AE1, MF6AE2, MF6AF5
	Mercury MF6AE5 , MF6AC0 , MF6AC0D , MF6AD1 , MF6AD2 , MF6AD7 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF5

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## Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF6AE5, PBW01, PBS01, MF6AF2, MF6AF3, MF6AC0L, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF5
	Calcium MF6AE5
	Potassium PBW01 , PBS01
	Sodium MF6AF2 , MF6AF3 , MF6AC0L
	Selenium MF6AC0 , MF6AC0D , MF6AC8 , MF6AC9 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD3 , MF6AD4 , MF6AD5 , MF6AD6 , MF6AD7 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF2 , MF6AF3 , MF6AF5 , MF6AC0L
	Barium MF6AC9
	Cobalt MF6AC0L
	Aluminum PBW01 , MF6AE5
	Beryllium MF6AC0L
	Antimony MF6AC0 , MF6AC0D , MF6AC8 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD4 , MF6AD5 , MF6AD6 , MF6AD7 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF2 , MF6AF3 , MF6AF5 , MF6AC0L
	Thallium MF6AC0
	Cadmium MF6AD1 , MF6AD2 , MF6AD7 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF3 , MF6AC0L
	Iron PBS01
	Silver MF6AC0 , MF6AC0D , MF6AC8 , MF6AC9 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD5 , MF6AD6 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AF2 , MF6AF3 , MF6AF5 , MF6AC0L

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Duplicates

Duplicates	ICP_AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Calcium MF6AC0D
	Copper MF6AC0D
	Iron MF6AC0D
	Manganese MF6AC0D

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Matrix Spikes

Matrix Spikes	ICP_AES
NG053	The following ICP-AES samples are not qualified due to missing the required Post-digestion spike added in the Spike sample analysis.
	MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Iron MF6AC0S
Matrix Spikes	ICP_AES
NG10	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries less than 75%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ.
	MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Antimony MF6AC0S
Matrix Spikes	ICP_AES
NG14	The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries less than or equal to 125%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are not qualified.
	MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Arsenic MF6AC0S

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Serial Dilution

Serial Dilution	ICP_AES
NL031	The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified U.
	MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Vanadium MF6AC0L
	Calcium MF6AC0L
	Barium MF6AC0L
	Zinc MF6AC0L
	Aluminum MF6AC0L
	Magnesium MF6AC0L
	Iron MF6AC0L
	Manganese MF6AC0L
	Lead MF6AC0L